TODAY CROSSREF, TOMORROW THE WORLD:
MANAGING XML CROSSWALKS WITH ALTOVA MAPFORCE

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Agenda

- Background: IR Services @ Georgia Southern
- Growing Challenge: Managing Metadata Transformations
- Our Current Solution: Altova Mapforce
  - Software Overview
  - DC → DOAJ Crosswalk
- Next Steps & Brainstorming

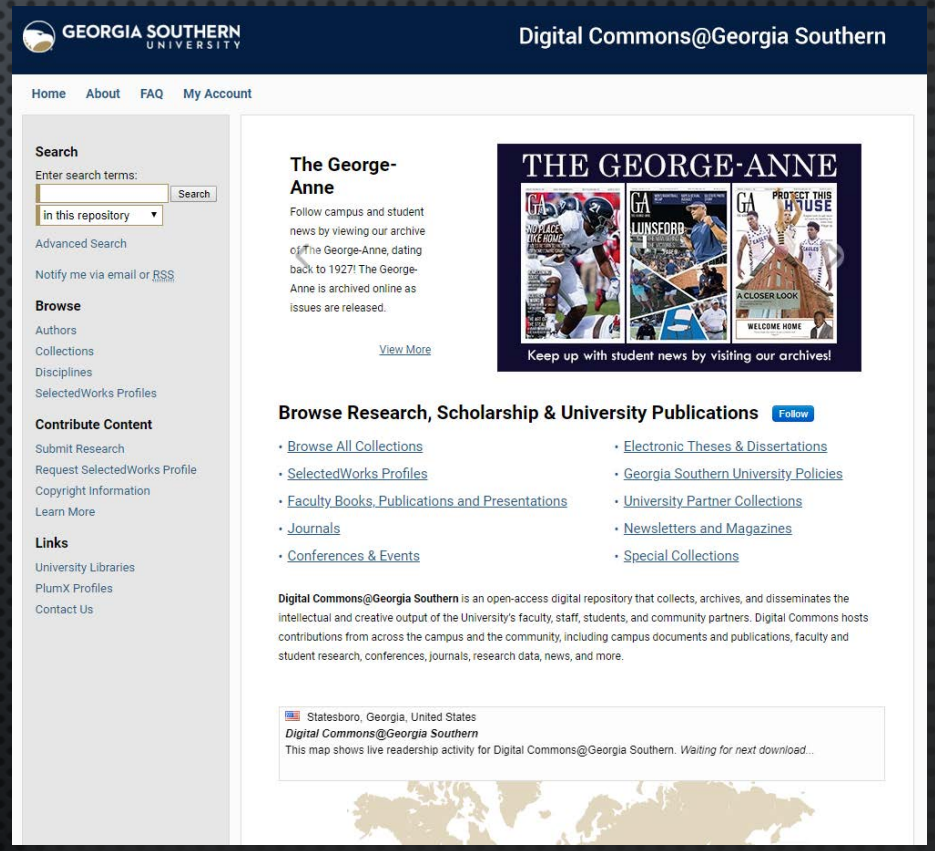
BACKGROUND: IR SERVICES @ GEORGIA SOUTHERN

GEORGIA SOUTHERN UNIVERSITY

- 26,400 STUDENTS
- 141 DEGREE PROGRAMS
- 3 CAMPUSES - STATESBORO, SAVANNAH, & HINESVILLE

IR SERVICES

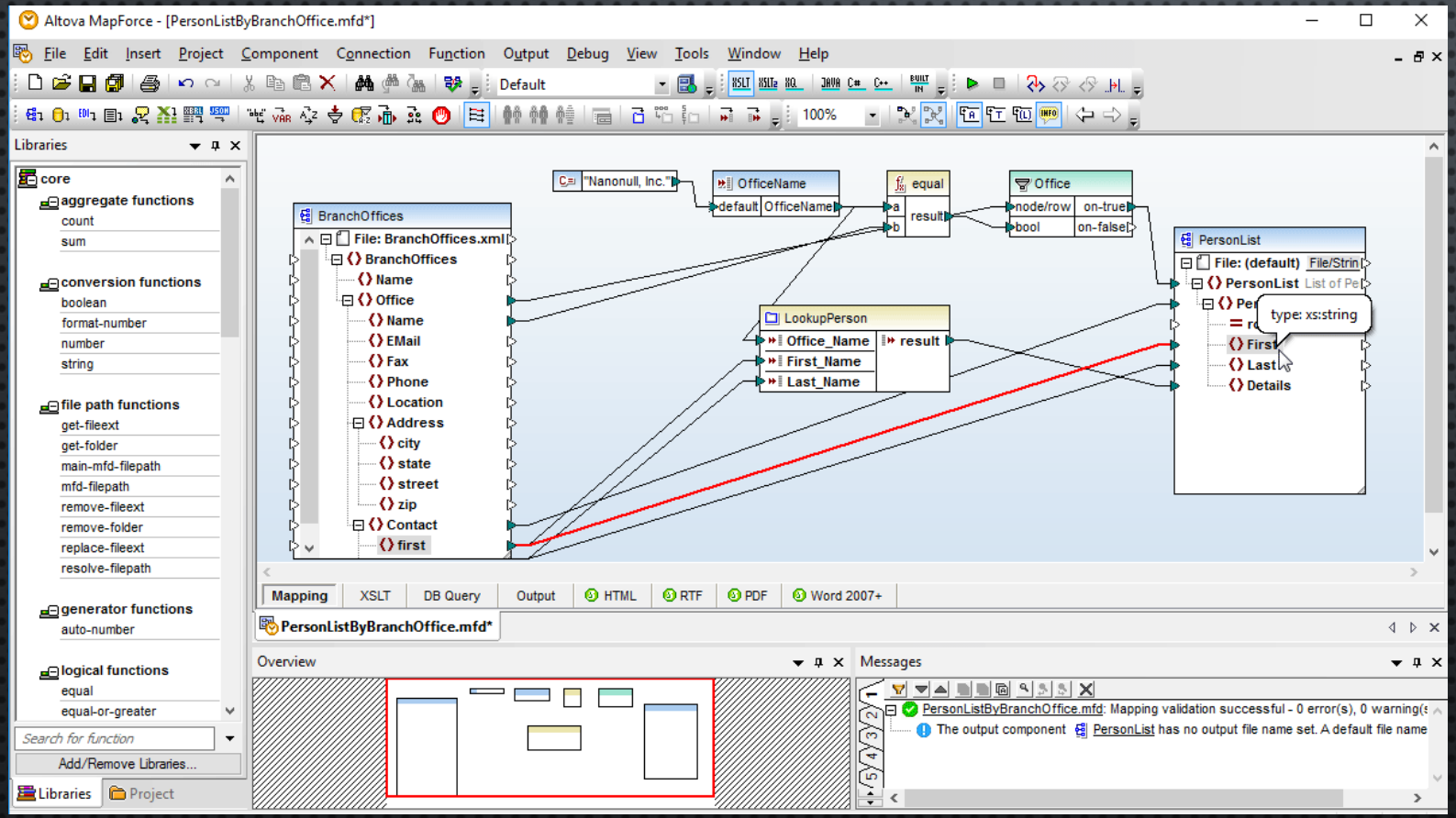
- 28 CONFERENCES & 13 JOURNALS
- 560+ SCHOLARLY PROFILES
- 50,600+ ARTIFACTS
- 2.9M DOWNLOADS
- 3 FTE STAFF



Growing Challenge: Metadata Transformations

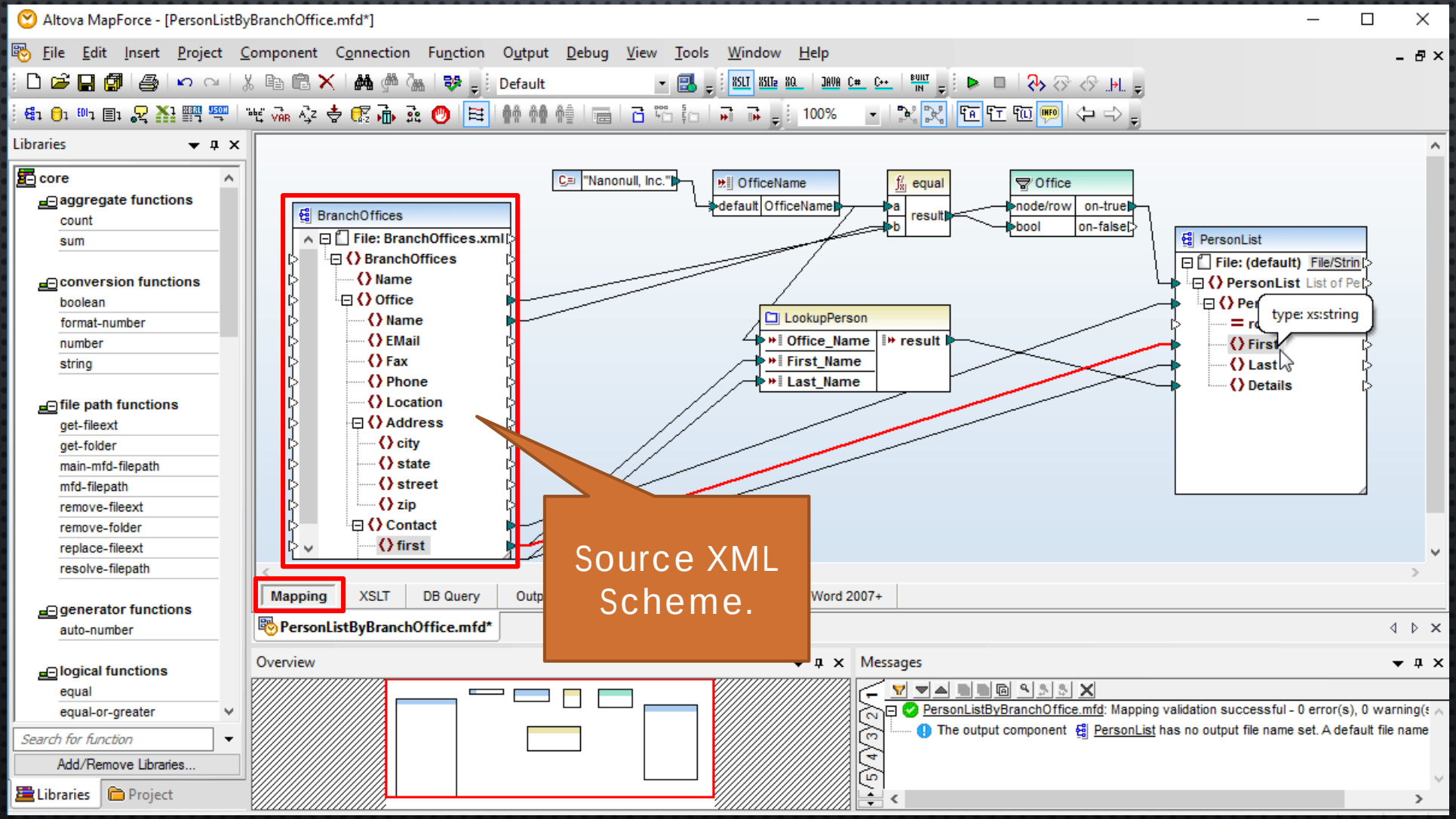
- Expanding reach and impact requires externalizing your metadata
  - DOI Registration (Crossref)
  - Article-level indexing (DOAJ & other 3rd-Party Indexes)
  - ETD cataloging, etc…
- Crosswalks require XML skills (especially given ability to customize fields)
- Of course, we just happen to be short on XML expertise!
- Repository Managers need tools to Simplify and streamline the process.

CURRENT SOLUTION: ALTOVA MAPFORCE



- INTUITIVE GRAPHICAL MAPPING TOOL FOR CONVERTING ANY STRUCTURED DATA, INCLUDING OAI-PMH, INTO ANY SCHEME WITHOUT SPECIALIZED KNOWLEDGE OF XML OR XSLT.
- HAS THE ABILITY TO DERIVE THE XML SCHEME FROM ANY EXAMPLE FILE.
- OUTPUTS XSL STYLESHEETS IN EITHER XSLT1 OR XSLT2, SUPPORTING MOST TRANSFORMATION WORKFLOWS (E.G., NOTEPAD++ WITH XML TOOLS).
- ONE DRAWBACK: $$$$

CURRENT SOLUTION: ALTOVA MAPFORCE



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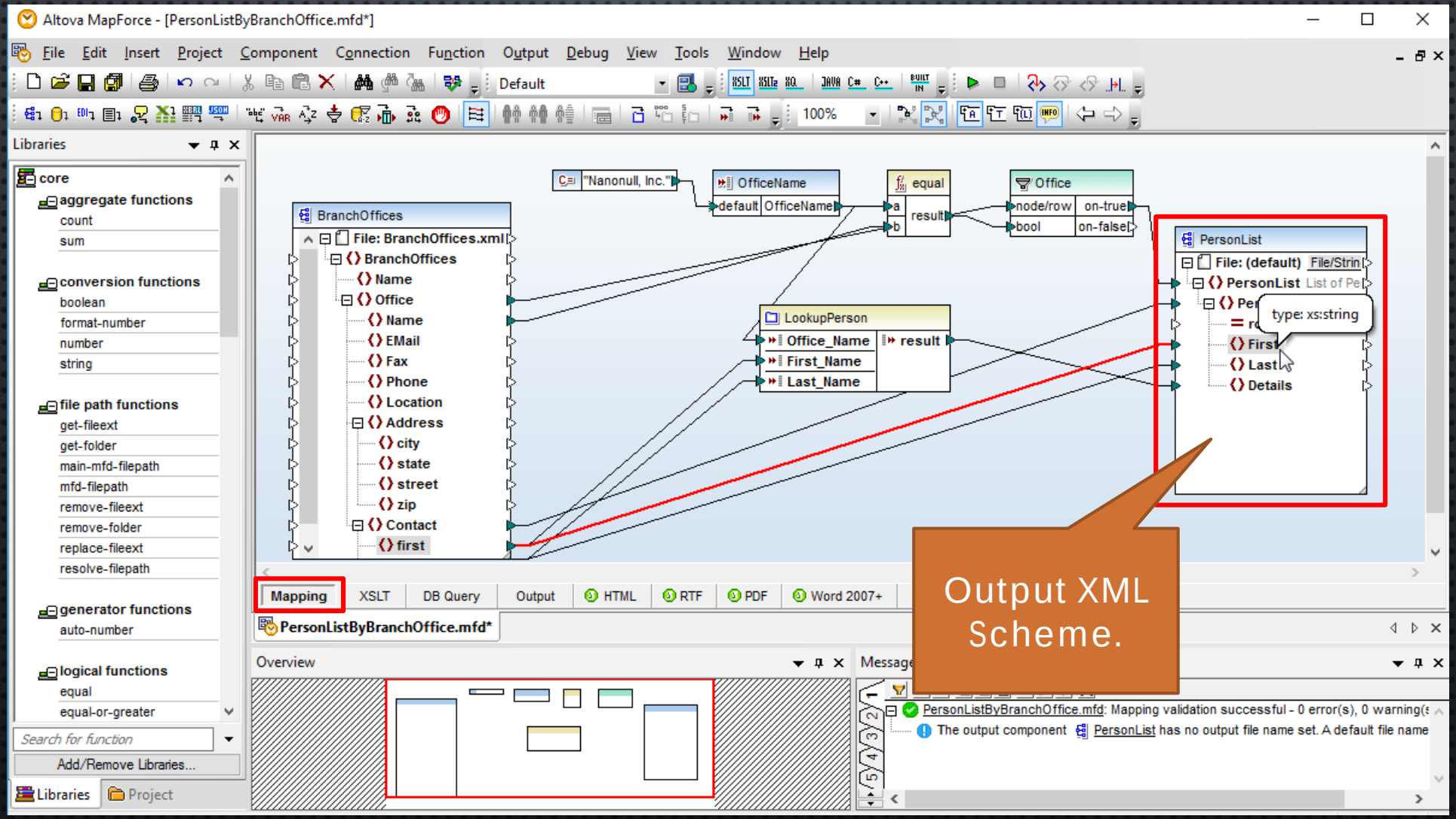

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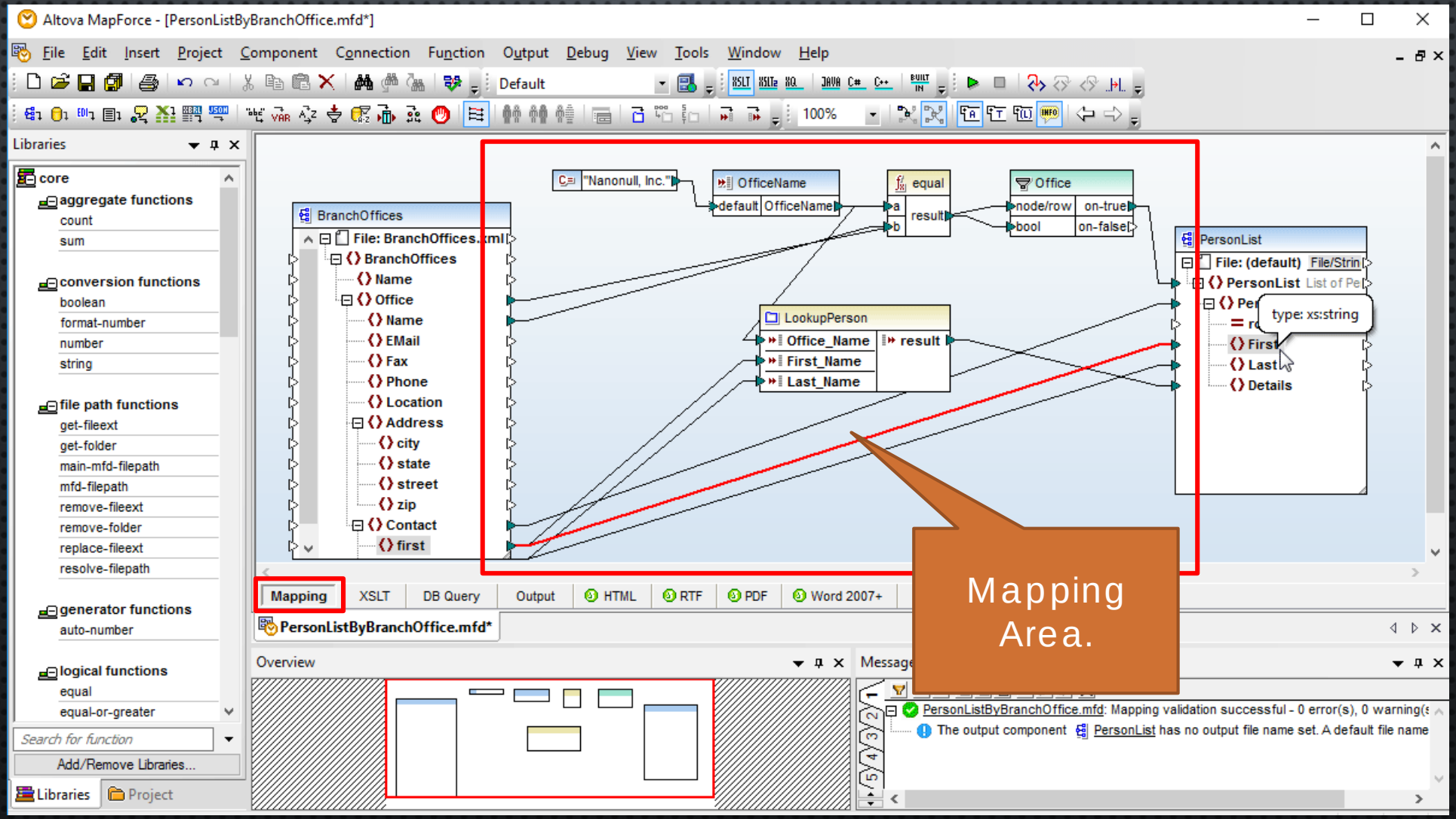

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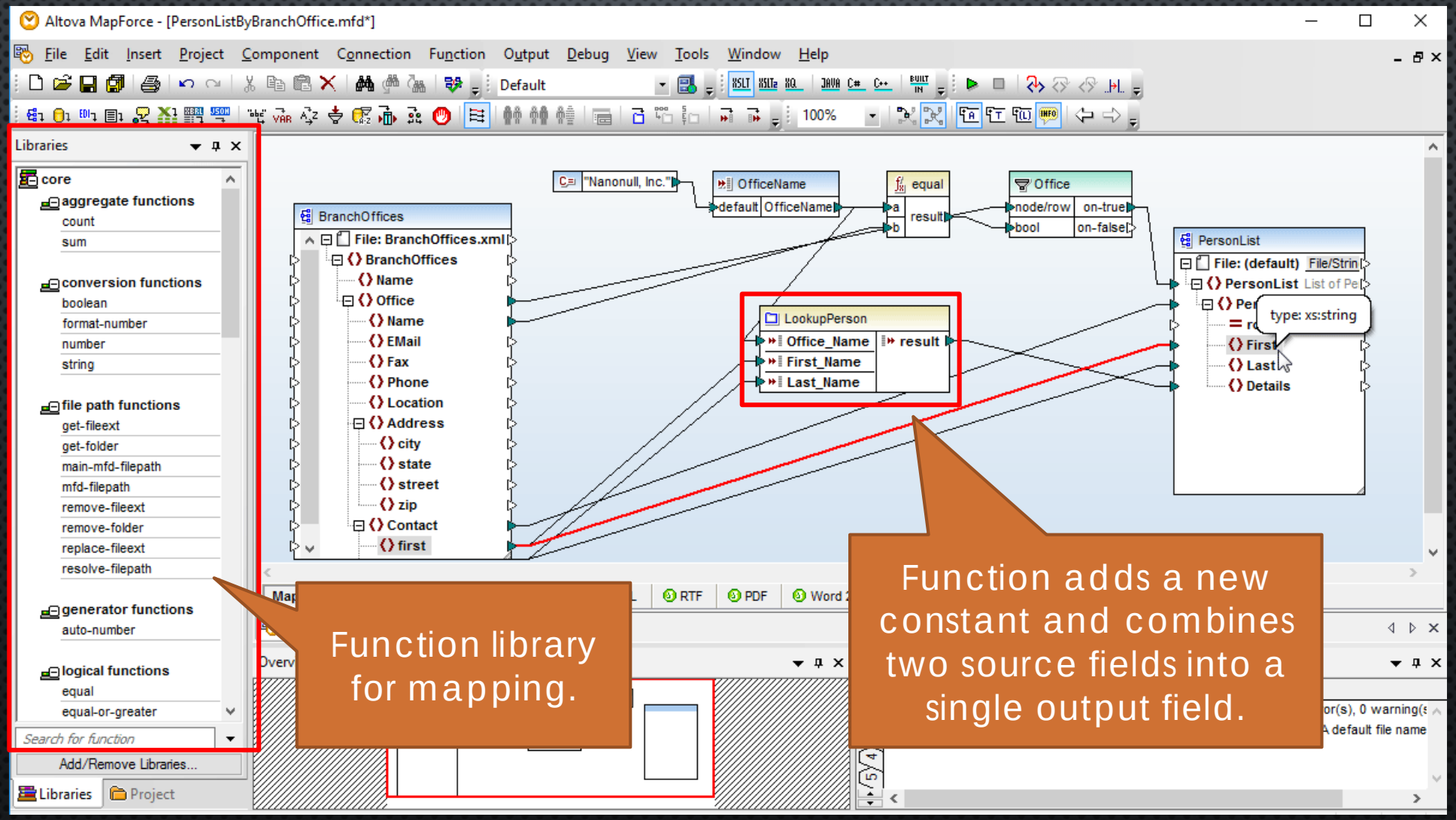

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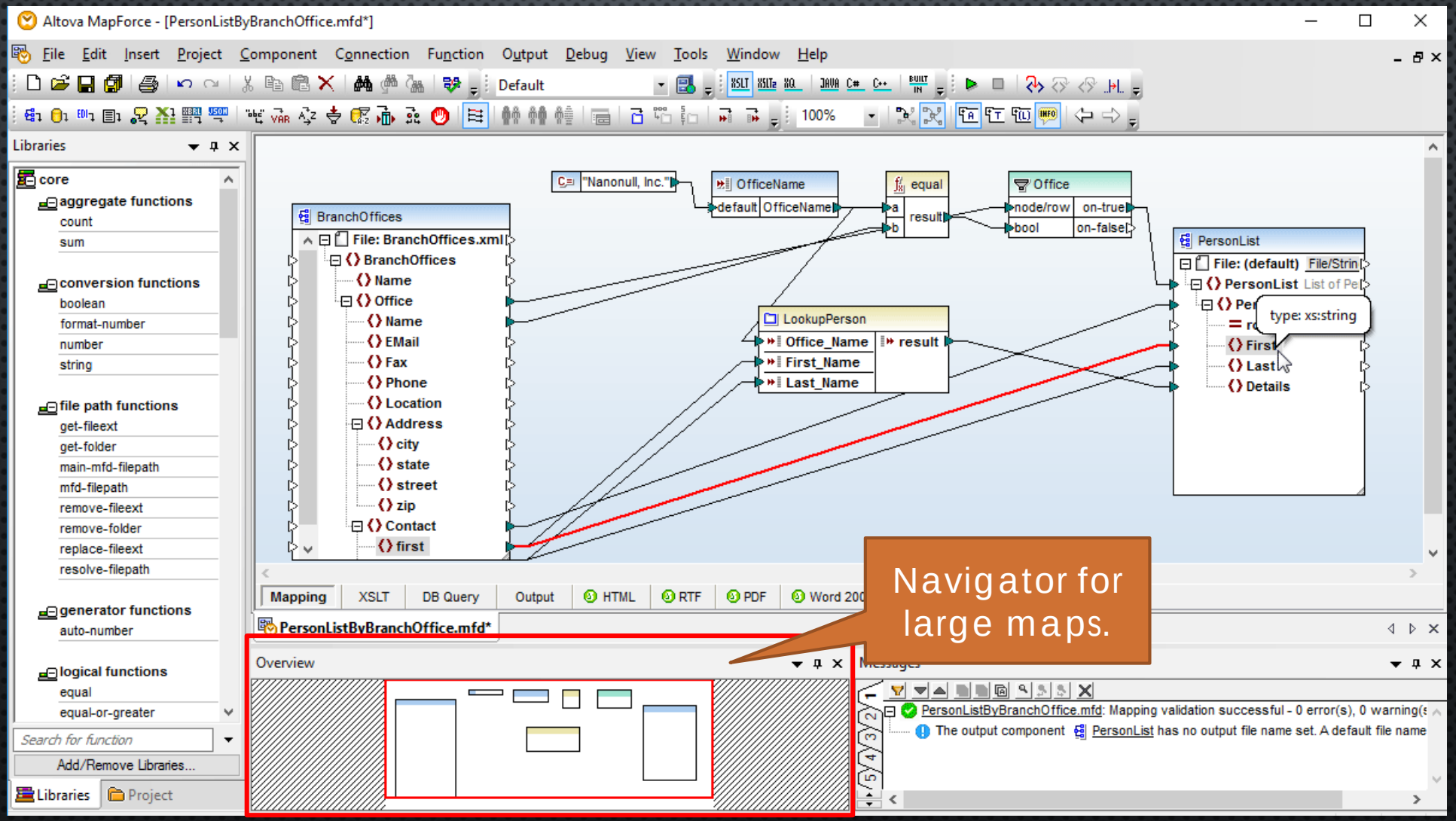

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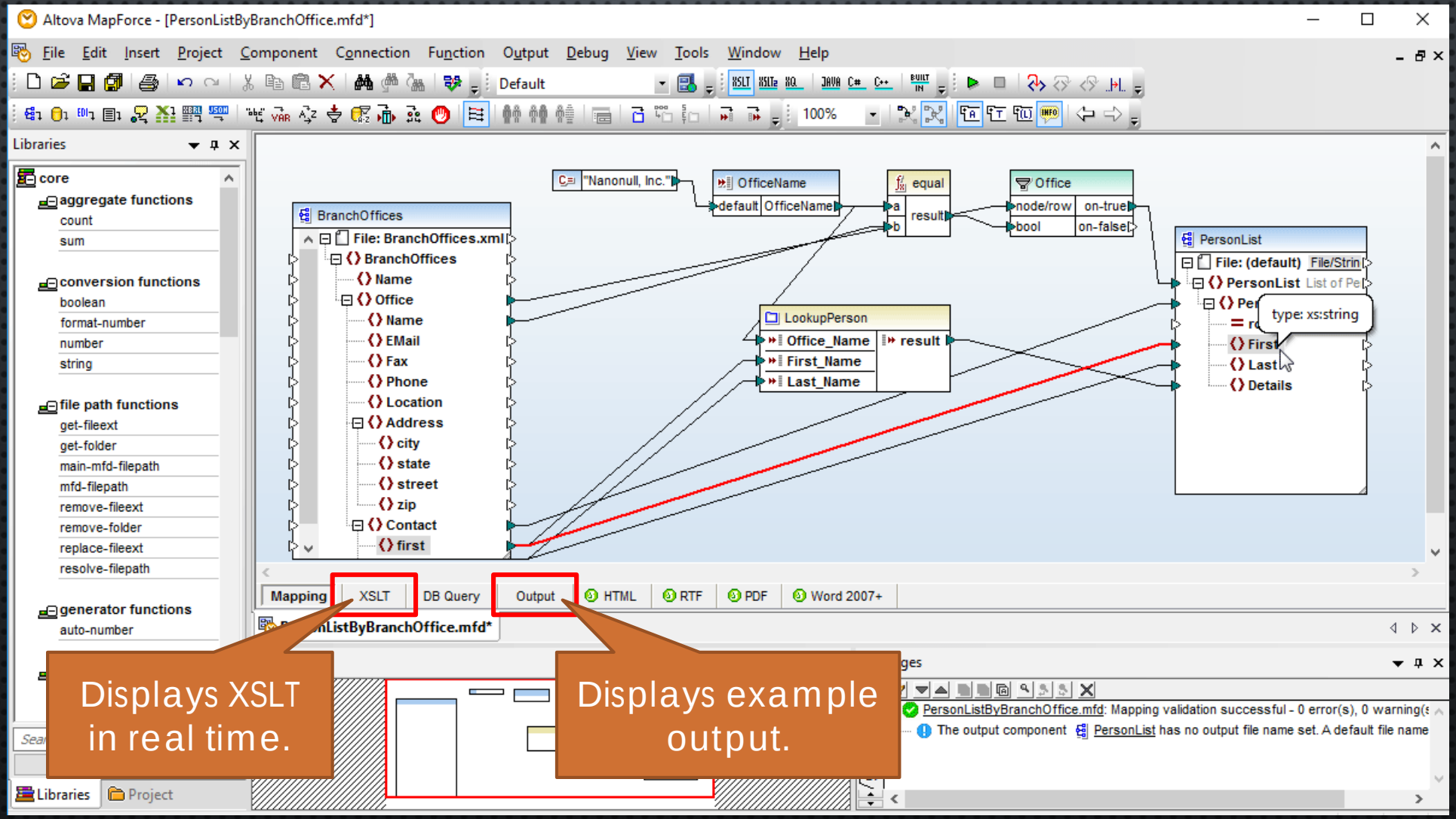
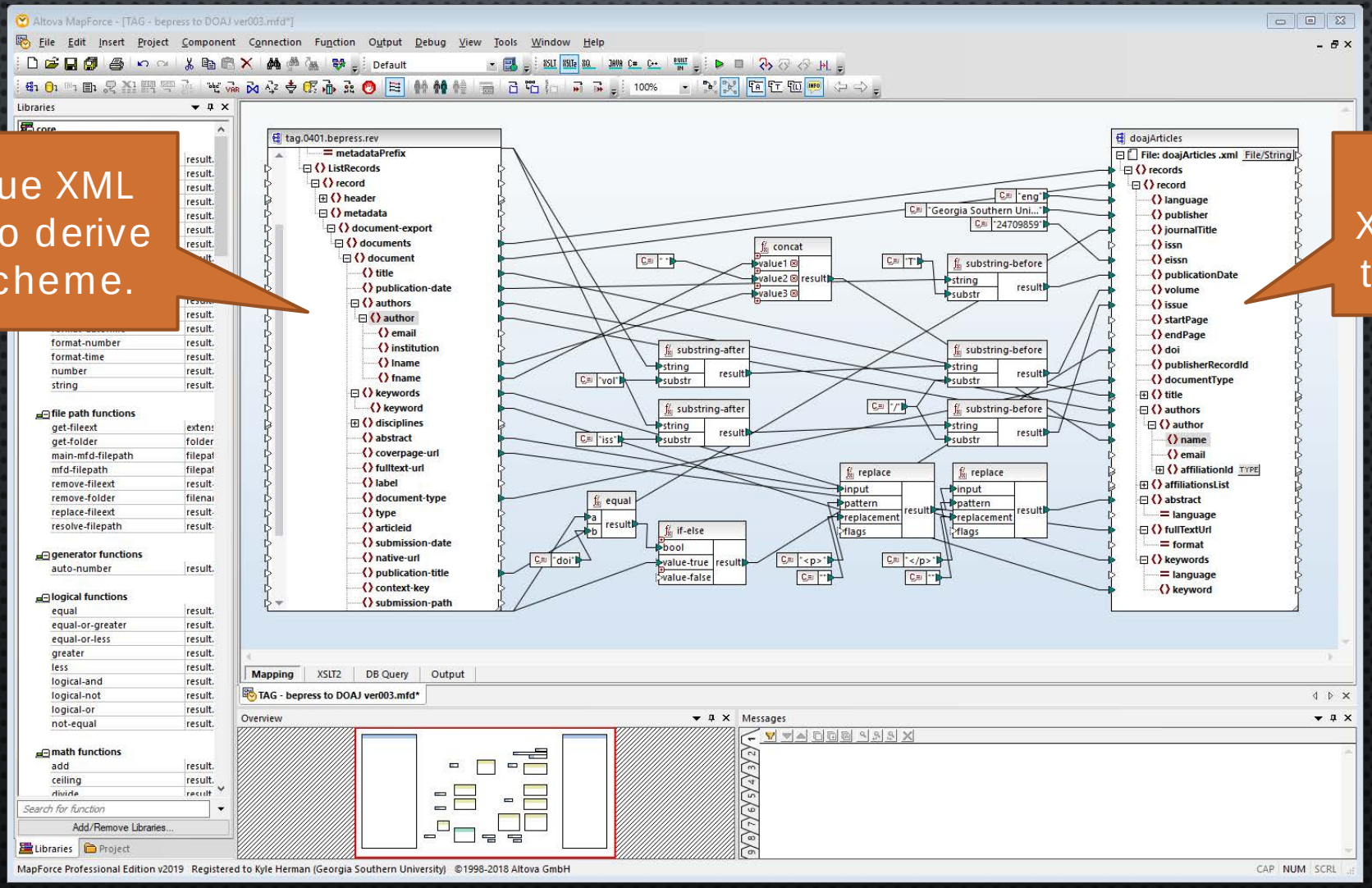


DIGITAL COMMONS → DOAJ NATIVE XML

Single issue XML file used to derive source scheme.



DOAJ Native XML file used as target scheme.

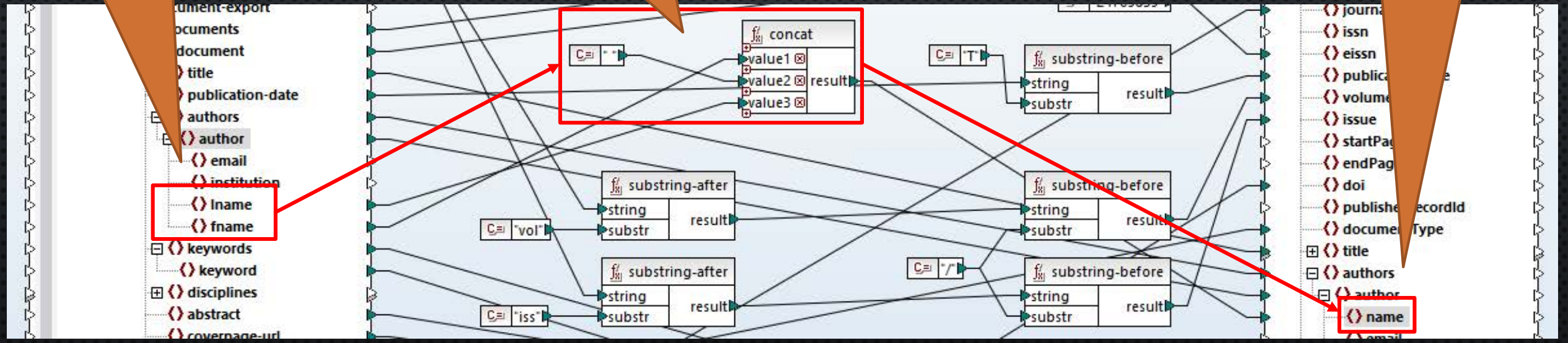
DIGITAL COMMONS → DOAJ NATIVE XML

EXAMPLE MAPPING: REFORMATTING THE AUTHOR NAME

Digital Commons uses two fields for last name and first name.

Concat function with " " constant inserted.

DOAJ uses one field in "FirstName Lastname" format.



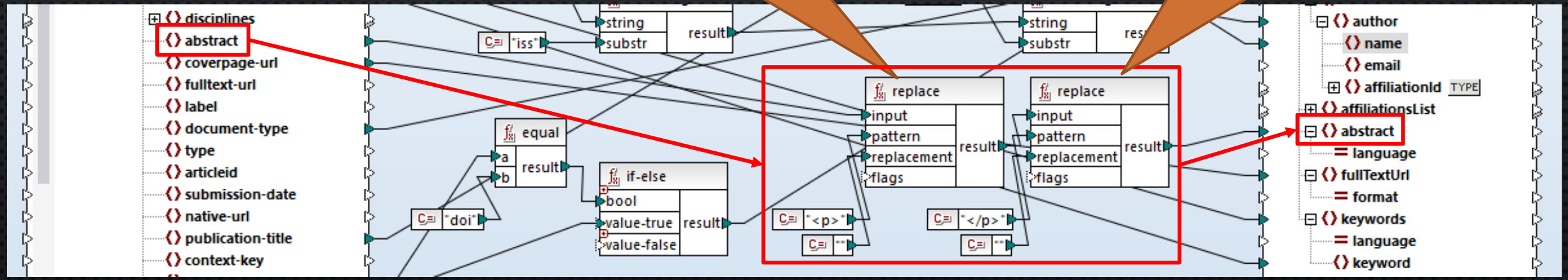
DIGITAL COMMONS → DOAJ NATIVE XML

EXAMPLE MAPPING: REMOVING HTML TAGS FROM THE ABSTRACT

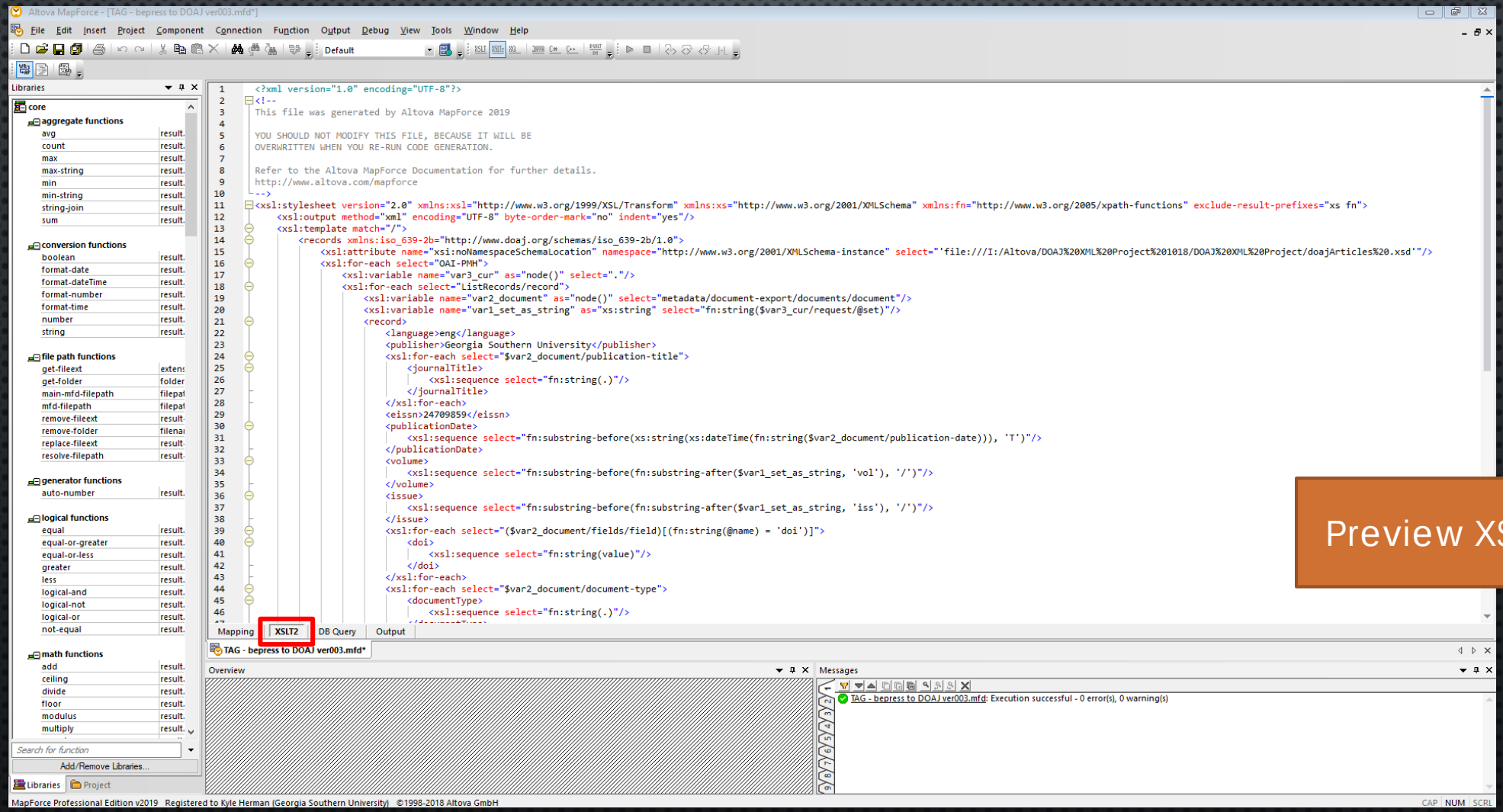
Some functions require XSLT2, which may impact workflow.

First **Replace** function removes " ".

Second **Replace** function removes " ".

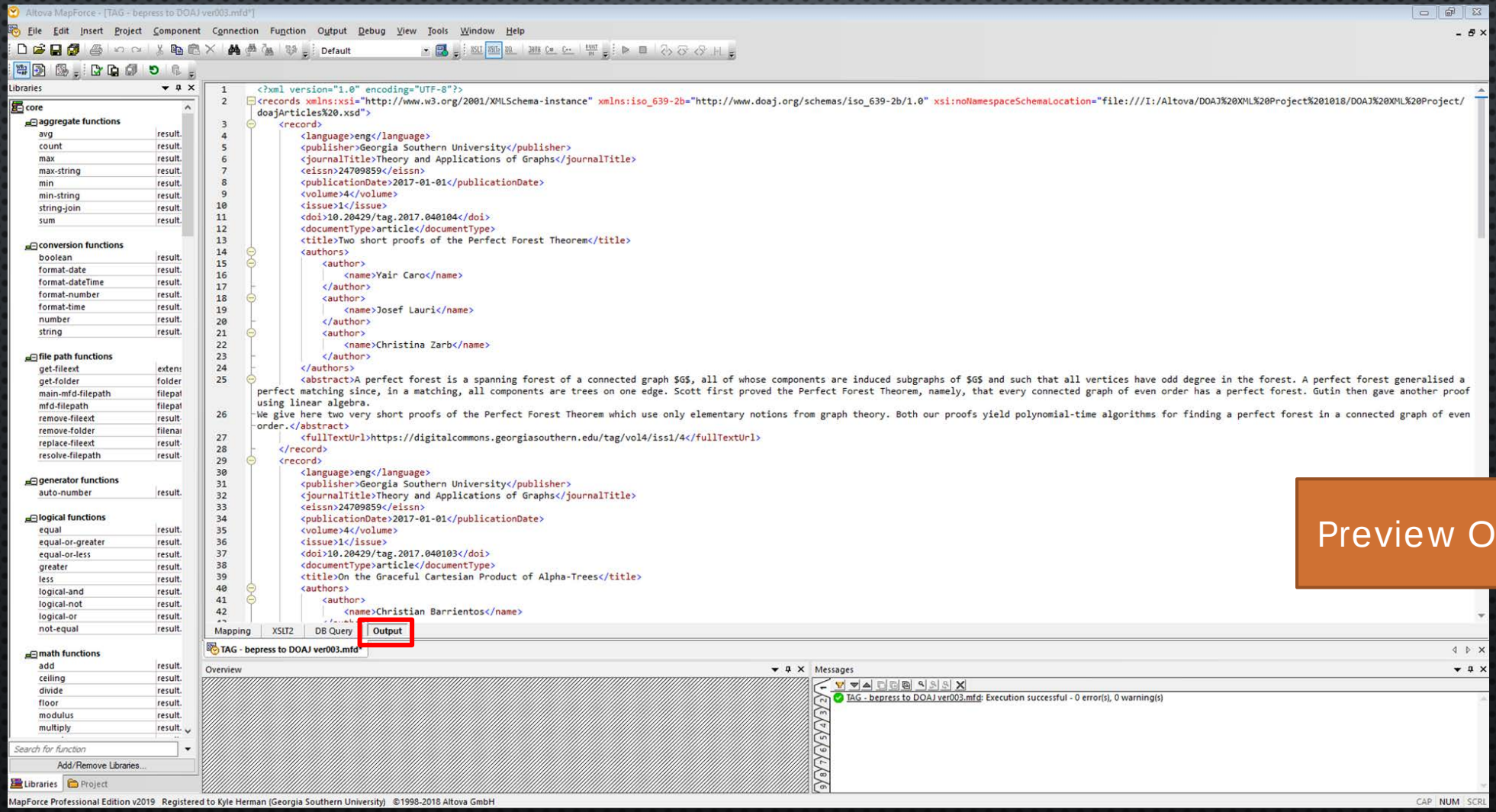


DIGITAL COMMONS → DOAJ NATIVE XML



Preview XSLT.

DIGITAL COMMONS → DOAJ NATIVE XML



Preview Output.

NEXT STEPS & BRAINSTORMING

THANK YOU!

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